OIPE JC11
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PATENT & TRADEMARK OFFICE

FIG. 1

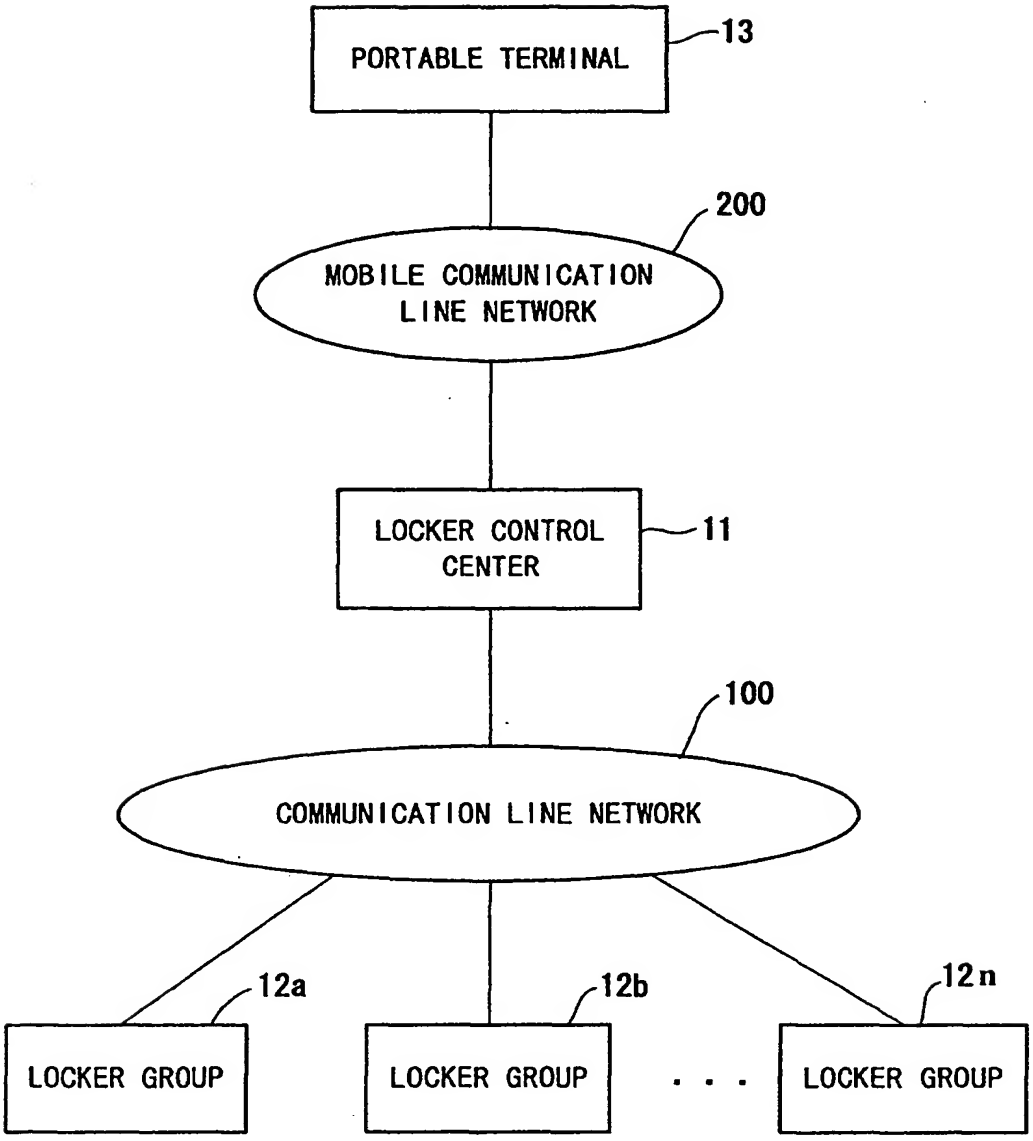


FIG. 2

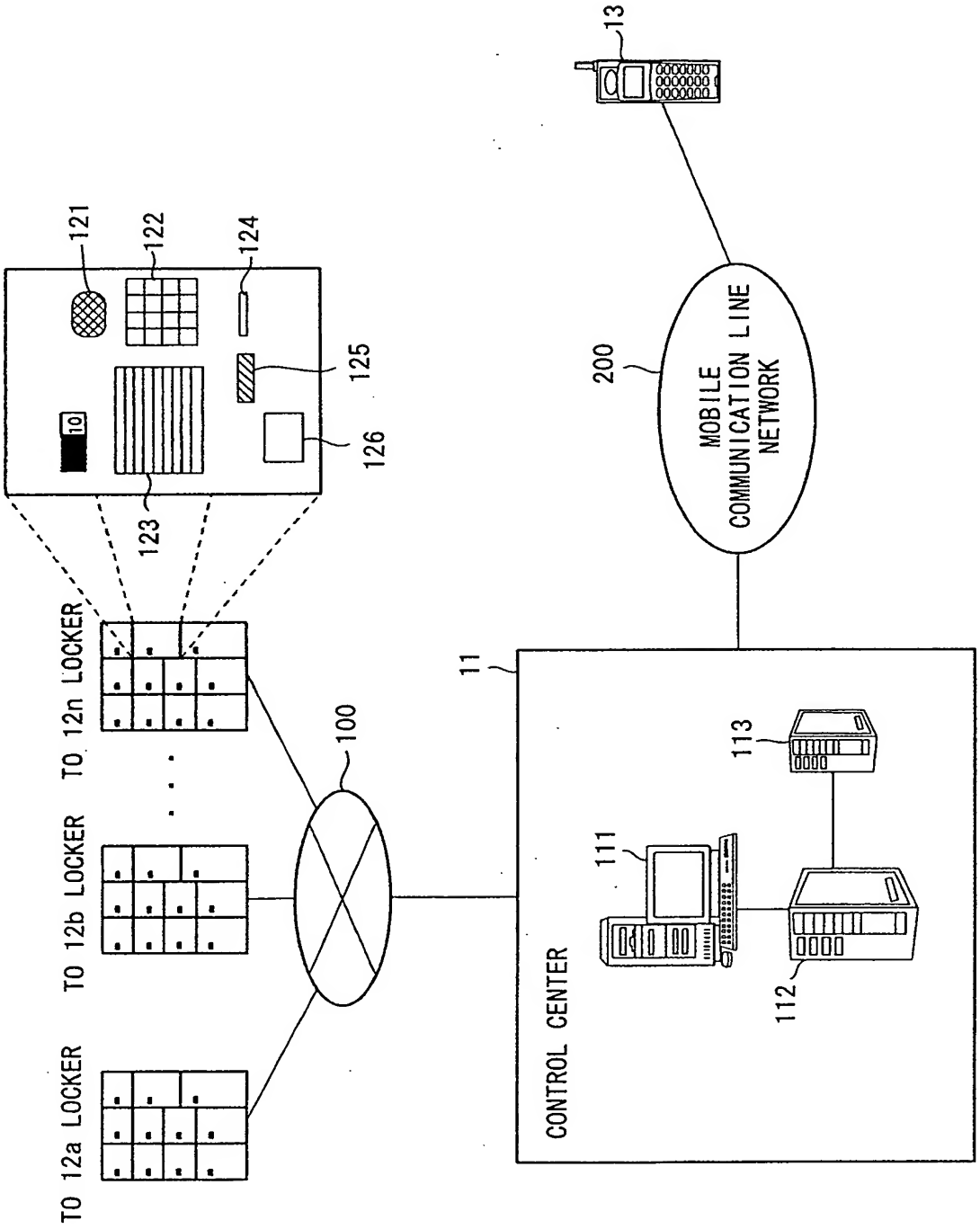

13
MOBILE COMMUNICATION LINE NETWORK
200
121
122
124
125
126
123
10
TO 12n LOCKER
TO 12b LOCKER
TO 12a LOCKER
100
11
CONTROL CENTER
111
113
112

FIG. 3

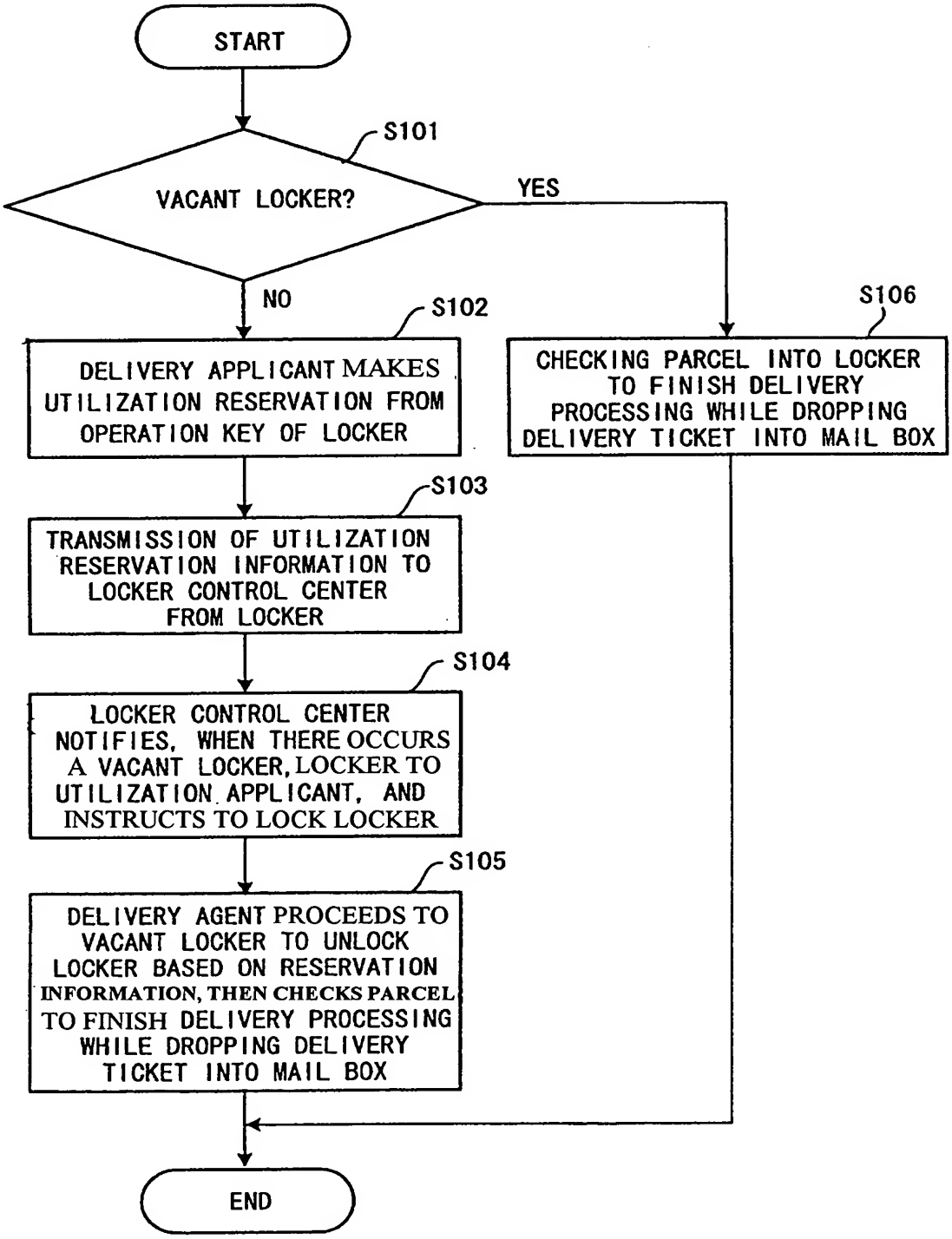

START
S101
VACANT LOCKER?
YES
NO
S102
DELIVERY APPLICANT MAKES UTILIZATION RESERVATION FROM OPERATION KEY OF LOCKER
S103
TRANSMISSION OF UTILIZATION RESERVATION INFORMATION TO LOCKER CONTROL CENTER FROM LOCKER
S104
LOCKER CONTROL CENTER NOTIFIES, WHEN THERE OCCURS A VACANT LOCKER, LOCKER TO UTILIZATION APPLICANT, AND INSTRUCTS TO LOCK LOCKER
S105
DELIVERY AGENT PROCEEDS TO VACANT LOCKER TO UNLOCK LOCKER BASED ON RESERVATION INFORMATION, THEN CHECKS PARCEL TO FINISH DELIVERY PROCESSING WHILE DROPPING DELIVERY TICKET INTO MAIL BOX
S106
CHECKING PARCEL INTO LOCKER TO FINISH DELIVERY PROCESSING WHILE DROPPING DELIVERY TICKET INTO MAIL BOX
END

FIG. 4

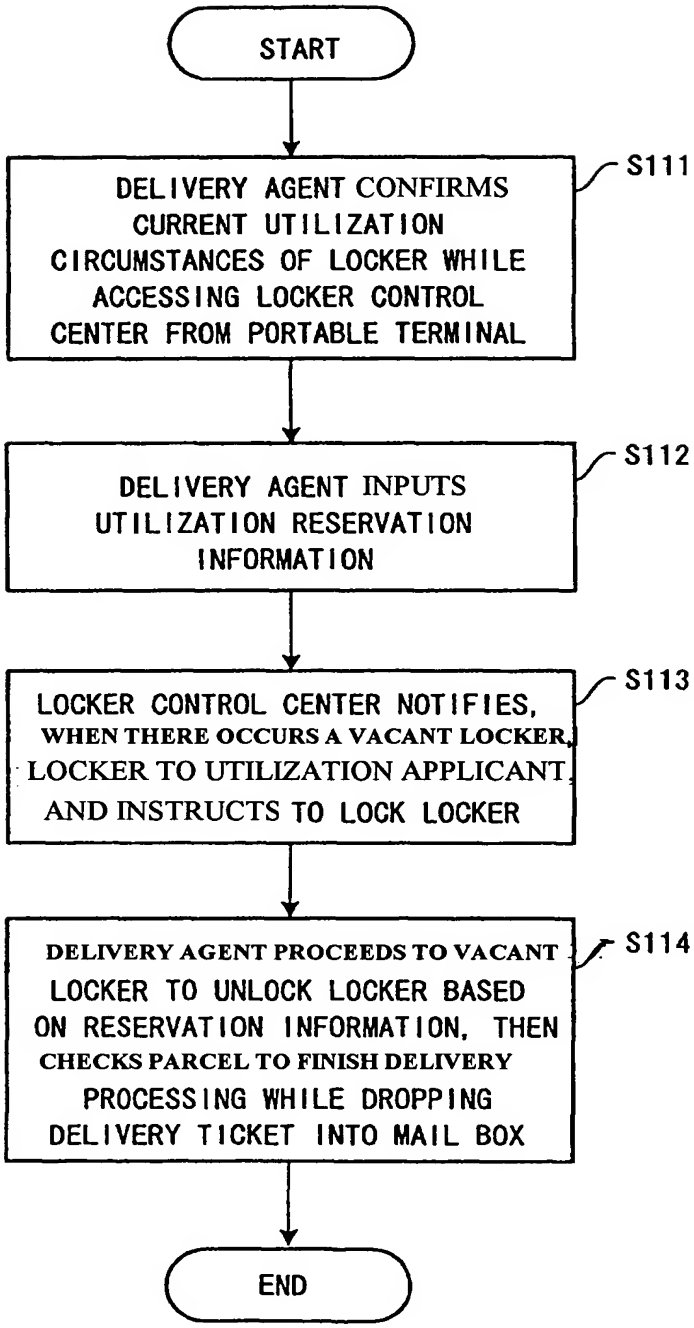

START
DELIVERY AGENT CONFIRMS CURRENT UTILIZATION CIRCUMSTANCES OF LOCKER WHILE ACCESSING LOCKER CONTROL CENTER FROM PORTABLE TERMINAL
S111
DELIVERY AGENT INPUTS UTILIZATION RESERVATION INFORMATION
S112
LOCKER CONTROL CENTER NOTIFIES, WHEN THERE OCCURS A VACANT LOCKER, LOCKER TO UTILIZATION APPLICANT, AND INSTRUCTS TO LOCK LOCKER
S113
DELIVERY AGENT PROCEEDS TO VACANT LOCKER TO UNLOCK LOCKER BASED ON RESERVATION INFORMATION, THEN CHECKS PARCEL TO FINISH DELIVERY PROCESSING WHILE DROPPING DELIVERY TICKET INTO MAIL BOX
S114
END

FIG. 5

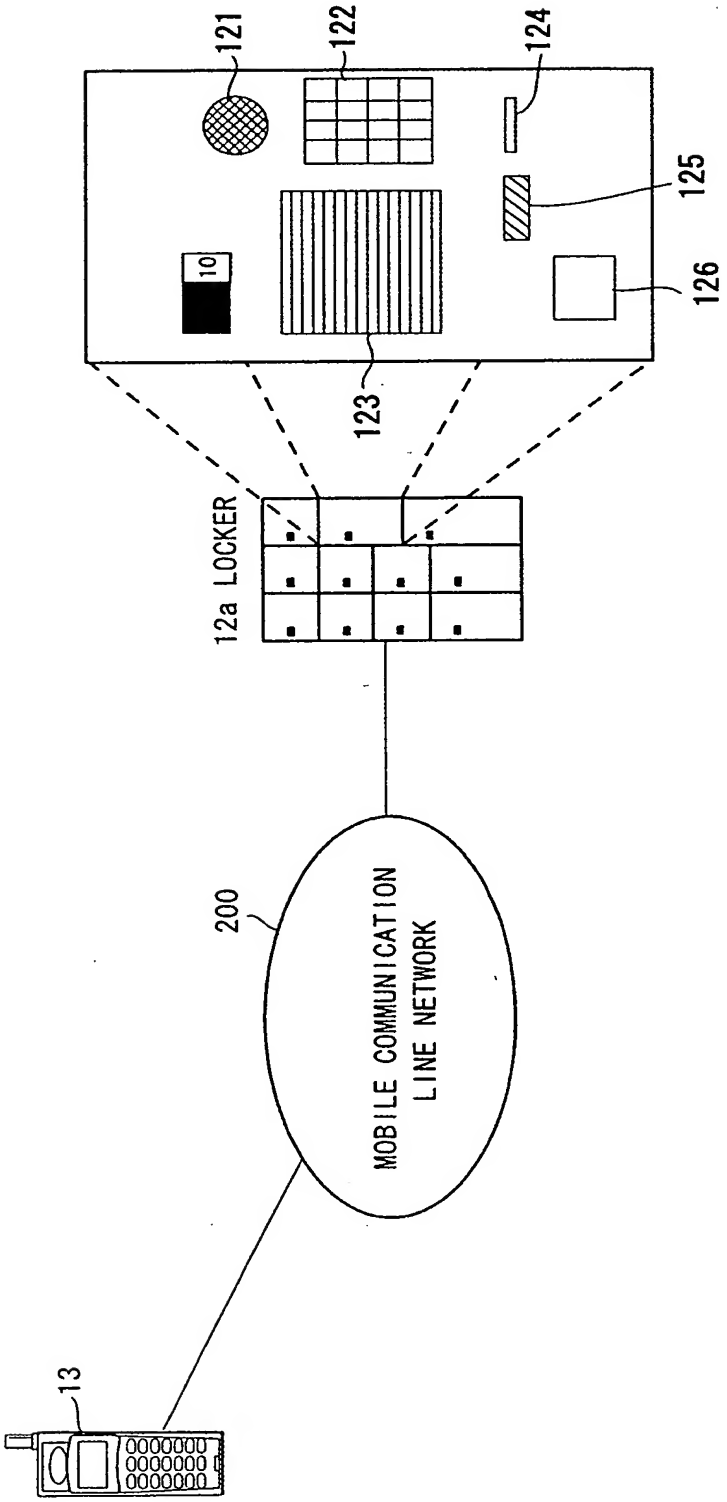

121
122
124
125
126
10
123
12a LOCKER
200
MOBILE COMMUNICATION LINE NETWORK
13

FIG. 6

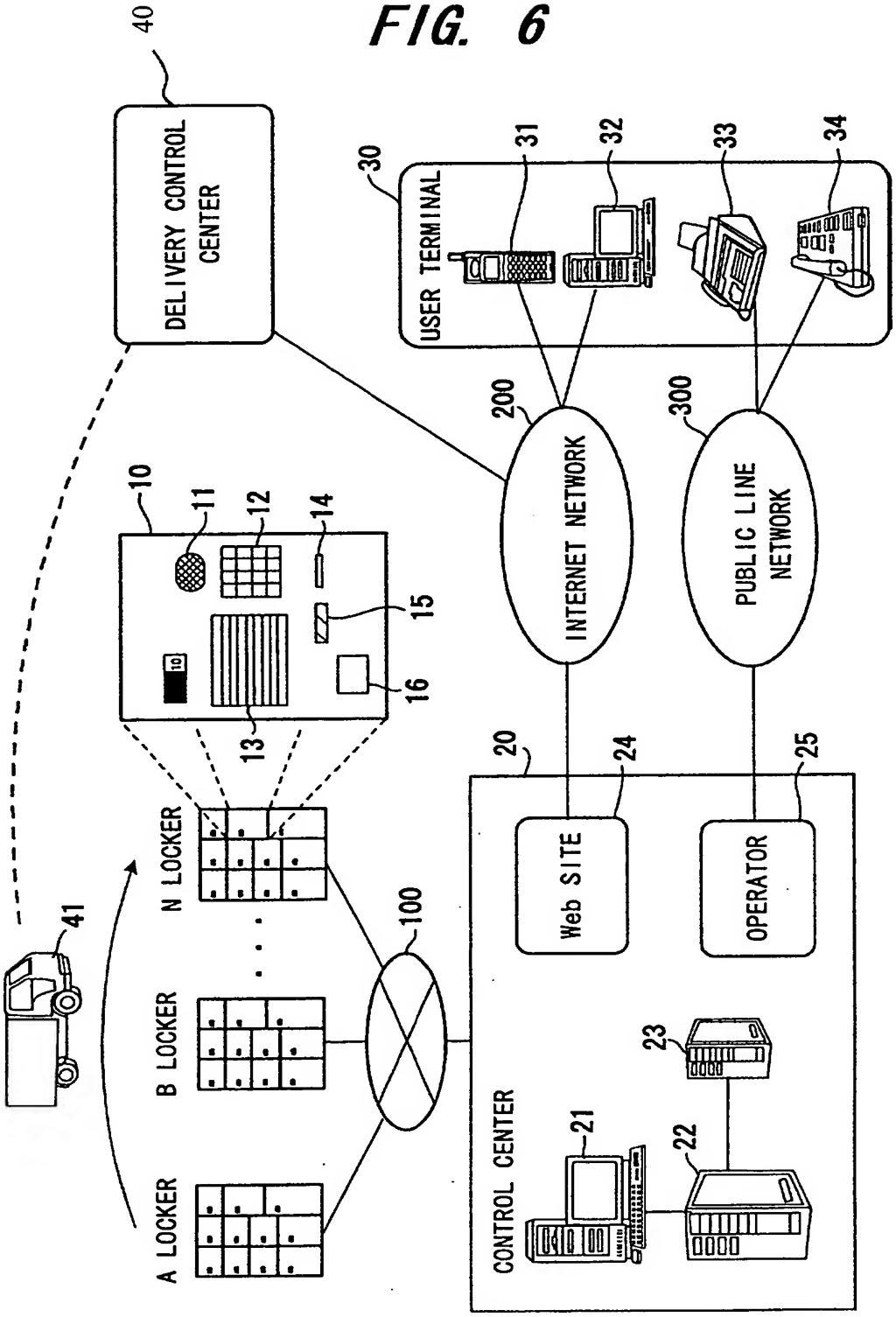

40
DELIVERY CONTROL CENTER
30
USER TERMINAL
31
32
33
34
200
INTERNET NETWORK
300
PUBLIC LINE NETWORK
10
11
12
14
15
16
13
20
24
25
Web SITE
OPERATOR
N LOCKER
B LOCKER
A LOCKER
100
41
CONTROL CENTER
21
22
23

FIG. 7

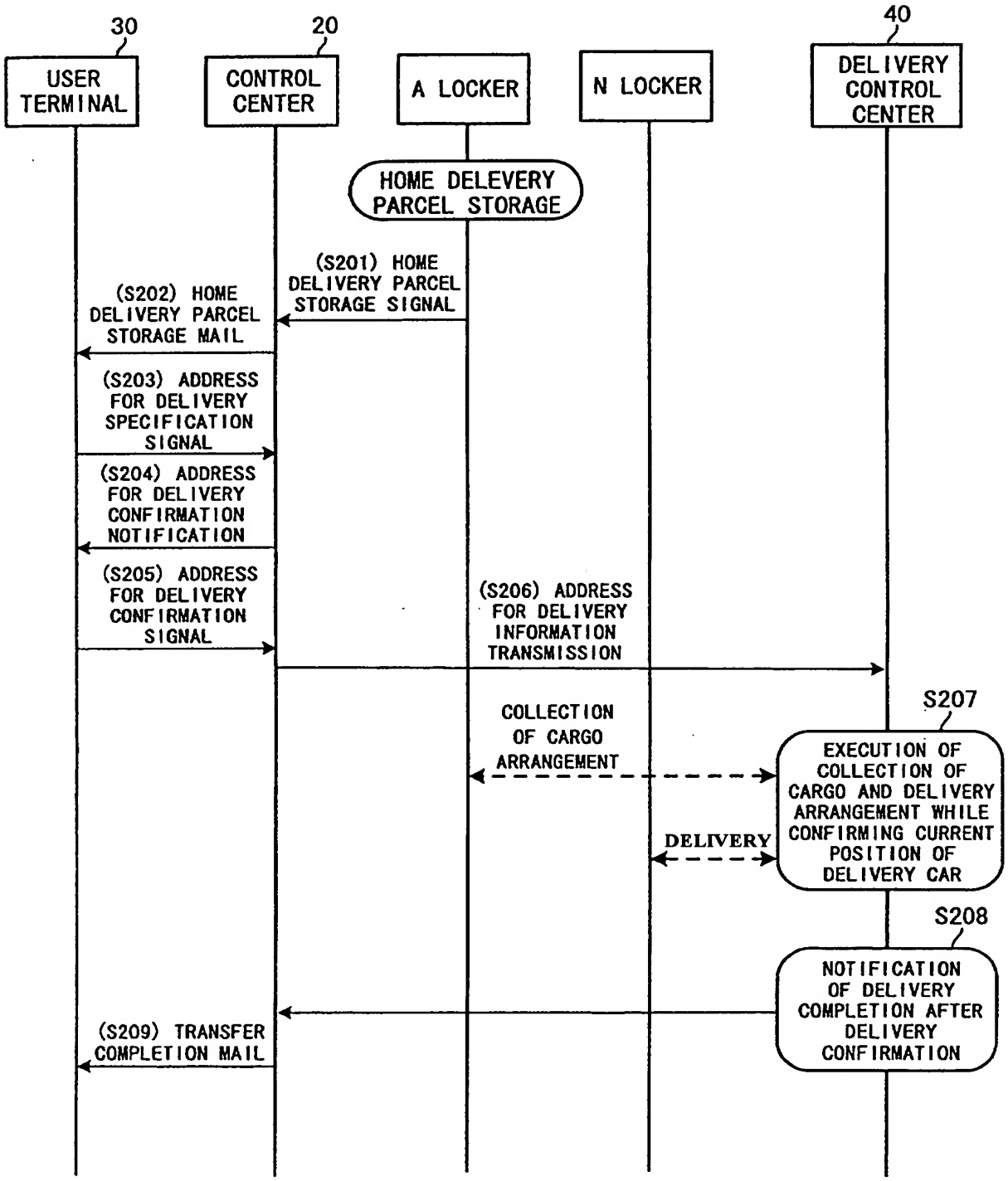

30
20
40
USER TERMINAL
CONTROL CENTER
A LOCKER
N LOCKER
DELIVERY CONTROL CENTER
HOME DELEVERY PARCEL STORAGE
(S201) HOME DELIVERY PARCEL STORAGE SIGNAL
(S202) HOME DELIVERY PARCEL STORAGE MAIL
(S203) ADDRESS FOR DELIVERY SPECIFICATION SIGNAL
(S204) ADDRESS FOR DELIVERY CONFIRMATION NOTIFICATION
(S205) ADDRESS FOR DELIVERY CONFIRMATION SIGNAL
(S206) ADDRESS FOR DELIVERY INFORMATION TRANSMISSION
S207
COLLECTION OF CARGO ARRANGEMENT
EXECUTION OF COLLECTION OF CARGO AND DELIVERY ARRANGEMENT WHILE CONFIRMING CURRENT POSITION OF DELIVERY CAR
DELIVERY
S208
NOTIFICATION OF DELIVERY COMPLETION AFTER DELIVERY CONFIRMATION
(S209) TRANSFER COMPLETION MAIL

FIG. 8

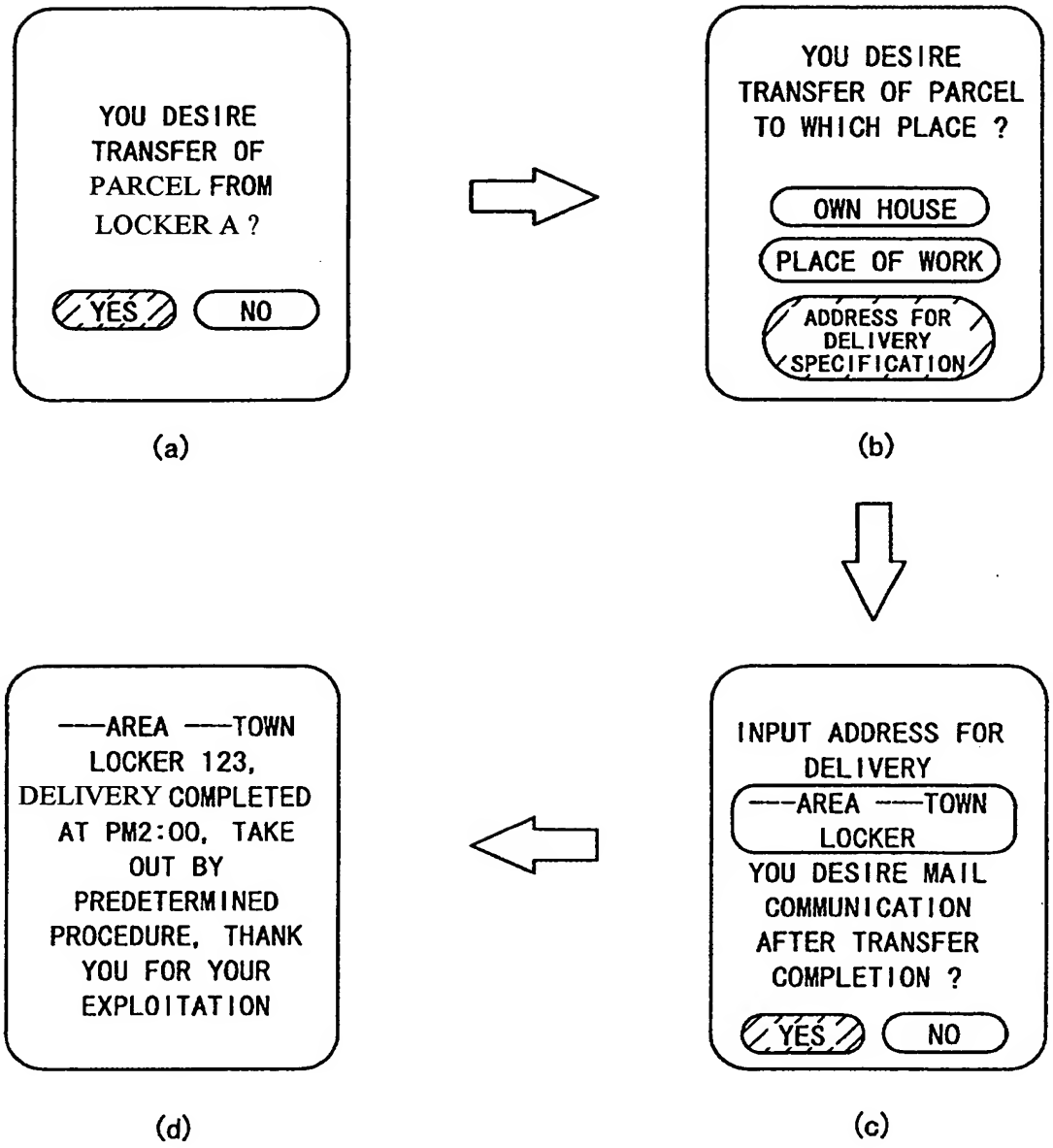

YOU DESIRE TRANSFER OF PARCEL FROM LOCKER A ?
YES
NO
(a)
YOU DESIRE TRANSFER OF PARCEL TO WHICH PLACE ?
OWN HOUSE
PLACE OF WORK
ADDRESS FOR DELIVERY SPECIFICATION
(b)
INPUT ADDRESS FOR DELIVERY
---AREA ---TOWN LOCKER
YOU DESIRE MAIL COMMUNICATION AFTER TRANSFER COMPLETION ?
YES
NO
(c)
---AREA ---TOWN LOCKER 123, DELIVERY COMPLETED AT PM2:00, TAKE OUT BY PREDETERMINED PROCEDURE, THANK YOU FOR YOUR EXPLOITATION
(d)

FIG. 9

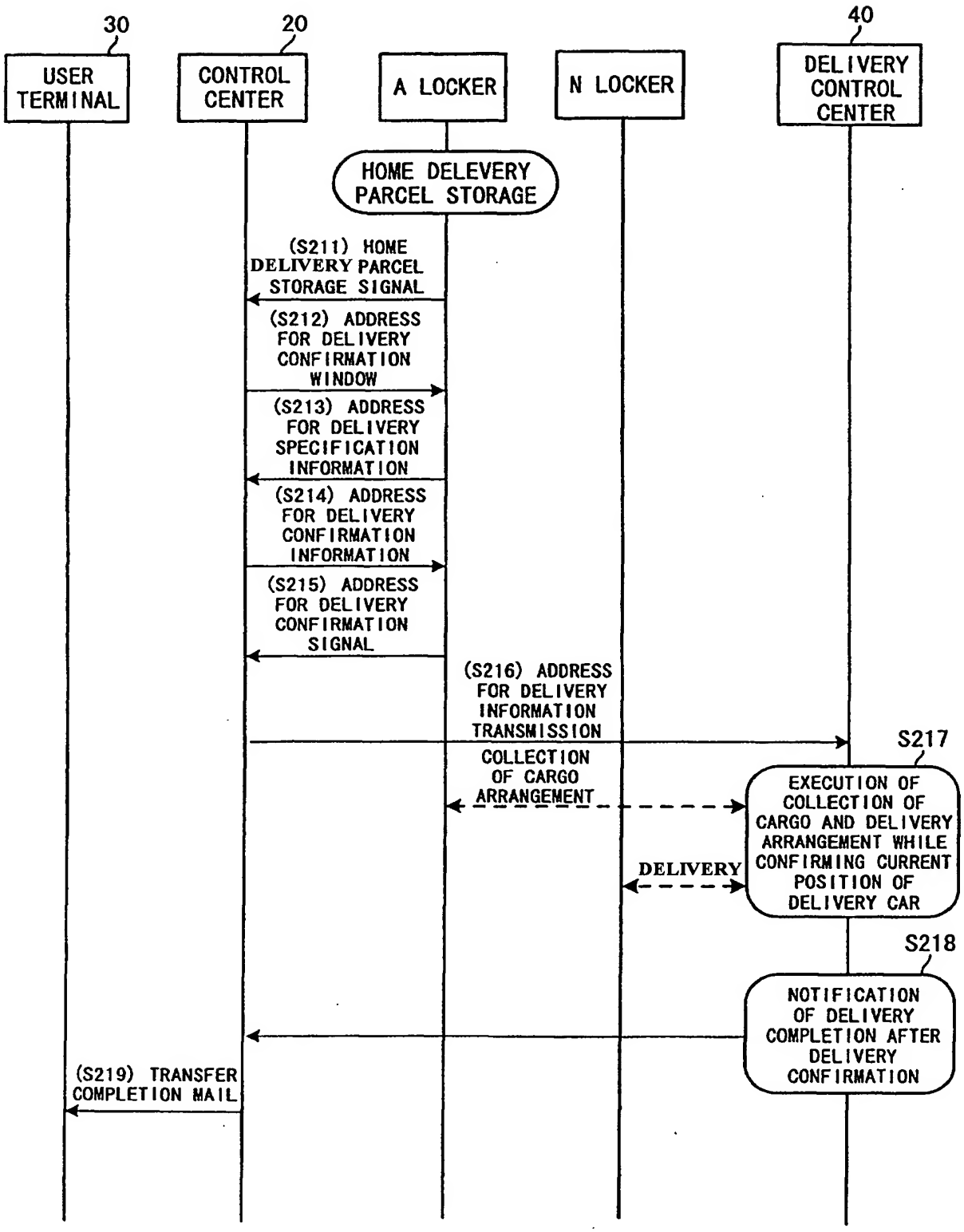
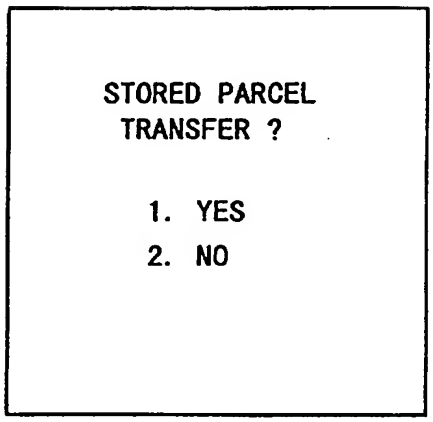
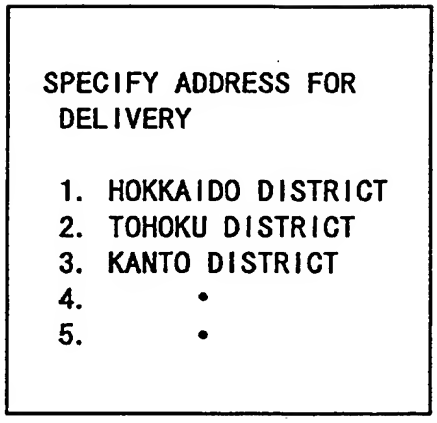

30
20
40
USER TERMINAL
CONTROL CENTER
A LOCKER
N LOCKER
DELIVERY CONTROL CENTER
HOME DELEVERY PARCEL STORAGE
(S211) HOME DELIVERY PARCEL STORAGE SIGNAL
(S212) ADDRESS FOR DELIVERY CONFIRMATION WINDOW
(S213) ADDRESS FOR DELIVERY SPECIFICATION INFORMATION
(S214) ADDRESS FOR DELIVERY CONFIRMATION INFORMATION
(S215) ADDRESS FOR DELIVERY CONFIRMATION SIGNAL
(S216) ADDRESS FOR DELIVERY INFORMATION TRANSMISSION
S217
COLLECTION OF CARGO ARRANGEMENT
EXECUTION OF COLLECTION OF CARGO AND DELIVERY ARRANGEMENT WHILE CONFIRMING CURRENT POSITION OF DELIVERY CAR
DELIVERY
S218
NOTIFICATION OF DELIVERY COMPLETION AFTER DELIVERY CONFIRMATION
(S219) TRANSFER COMPLETION MAIL

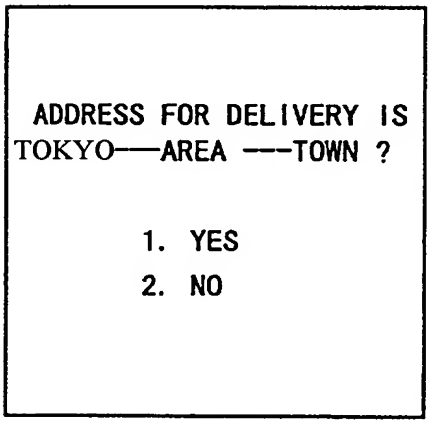
FIG. 10



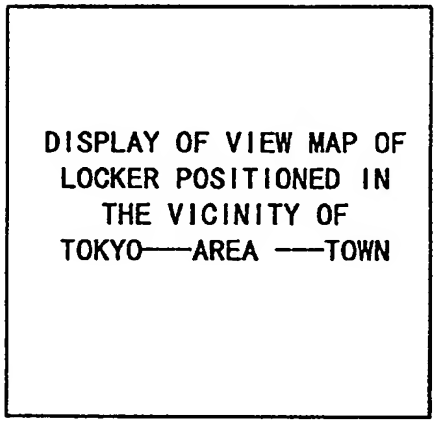
(a)



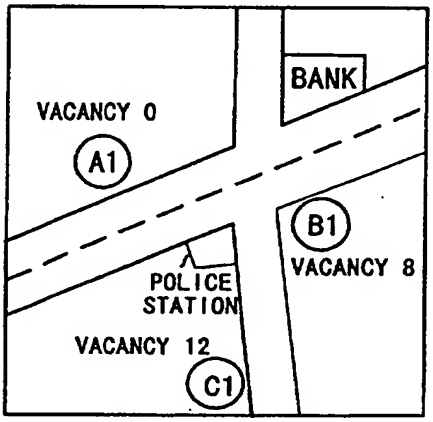
(b)



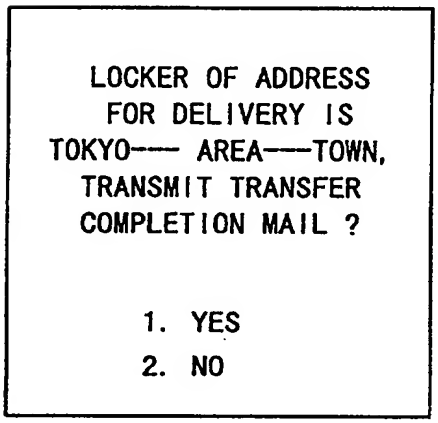
(c)



(d)



(e)



(f)

FIG. 11

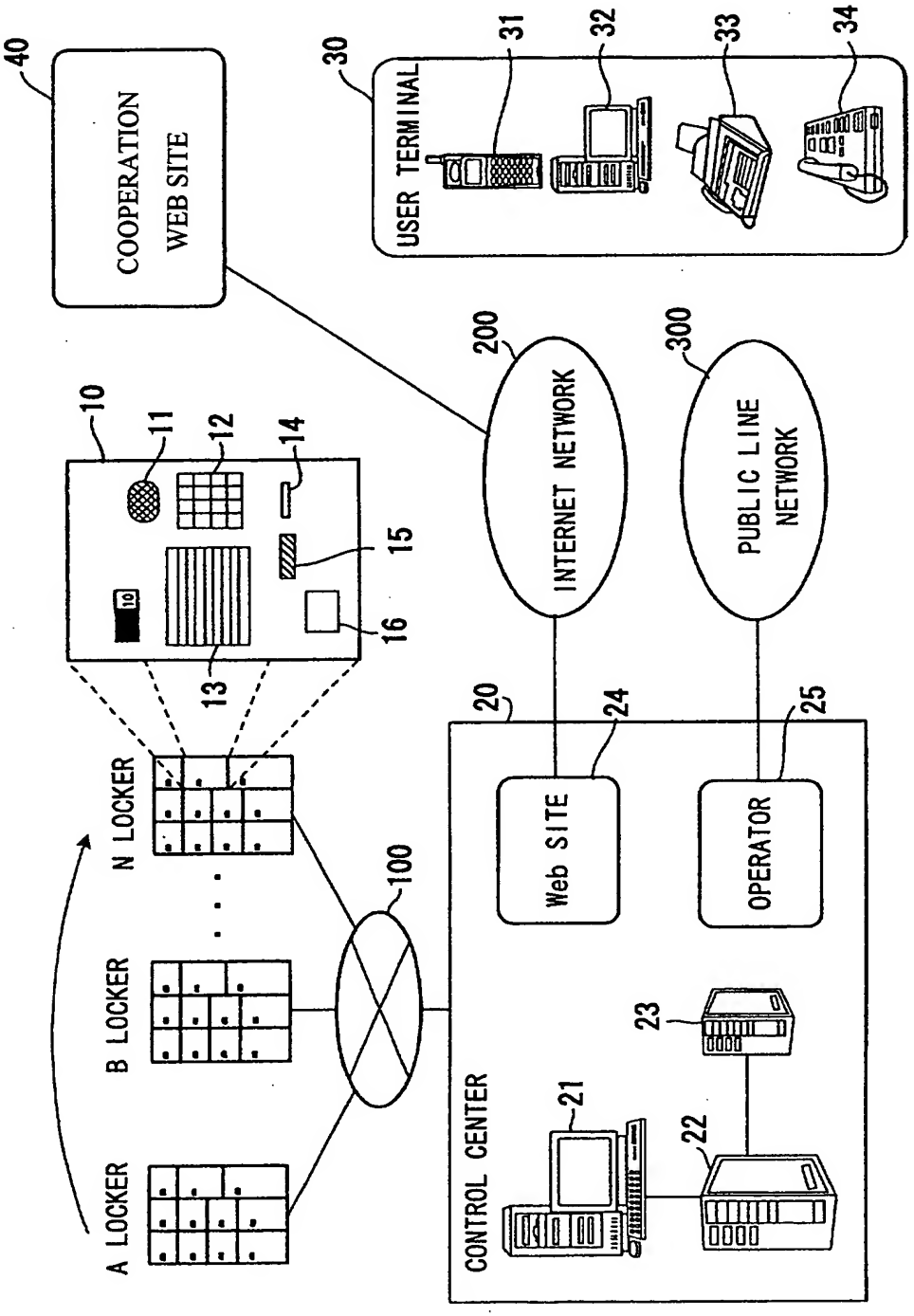

40
COOPERATION WEB SITE
30
USER TERMINAL
31
32
33
34
200
INTERNET NETWORK
300
PUBLIC LINE NETWORK
10
11
12
14
15
16
13
N LOCKER
B LOCKER
A LOCKER
100
20
24
25
Web SITE
OPERATOR
CONTROL CENTER
21
22
23

FIG. 12

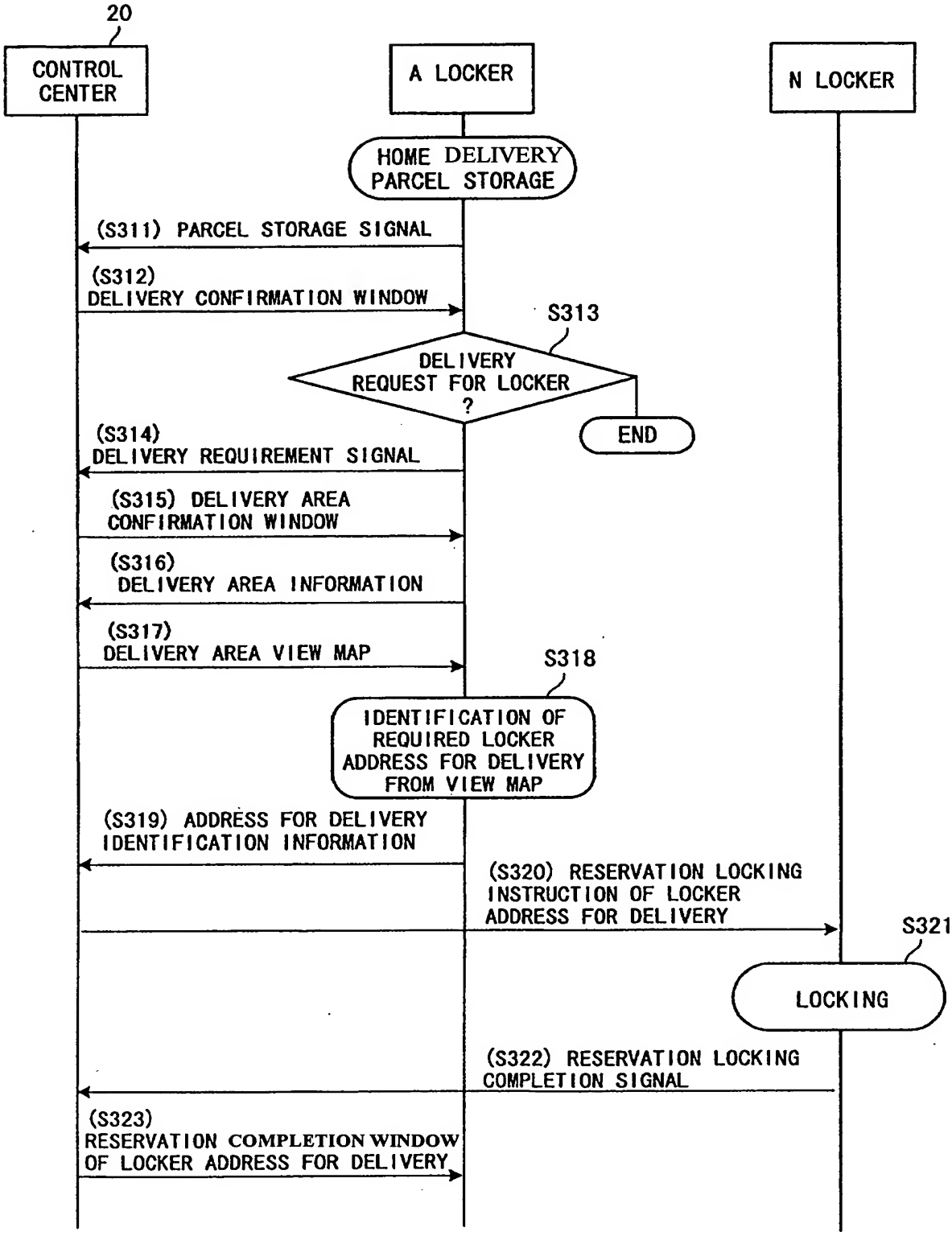
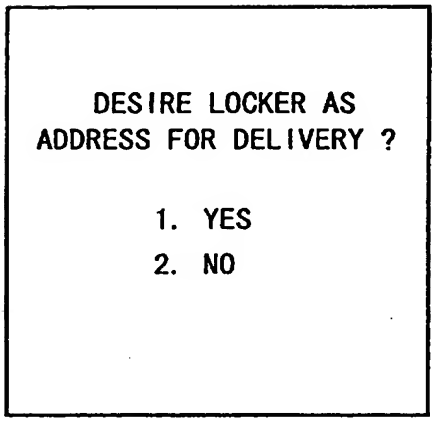
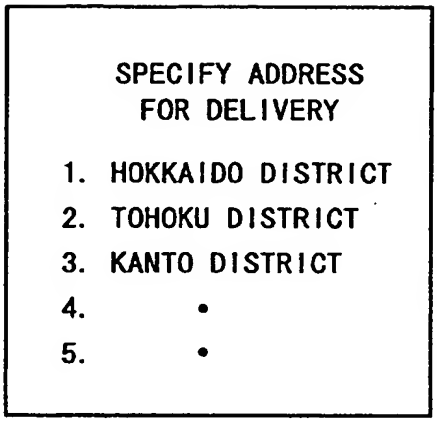

20
CONTROL CENTER
A LOCKER
N LOCKER
HOME DELIVERY PARCEL STORAGE
(S311) PARCEL STORAGE SIGNAL
(S312) DELIVERY CONFIRMATION WINDOW
S313
DELIVERY REQUEST FOR LOCKER ?
END
(S314) DELIVERY REQUIREMENT SIGNAL
(S315) DELIVERY AREA CONFIRMATION WINDOW
(S316) DELIVERY AREA INFORMATION
(S317) DELIVERY AREA VIEW MAP
S318
IDENTIFICATION OF REQUIRED LOCKER ADDRESS FOR DELIVERY FROM VIEW MAP
(S319) ADDRESS FOR DELIVERY IDENTIFICATION INFORMATION
(S320) RESERVATION LOCKING INSTRUCTION OF LOCKER ADDRESS FOR DELIVERY
S321
LOCKING
(S322) RESERVATION LOCKING COMPLETION SIGNAL
(S323) RESERVATION COMPLETION WINDOW OF LOCKER ADDRESS FOR DELIVERY

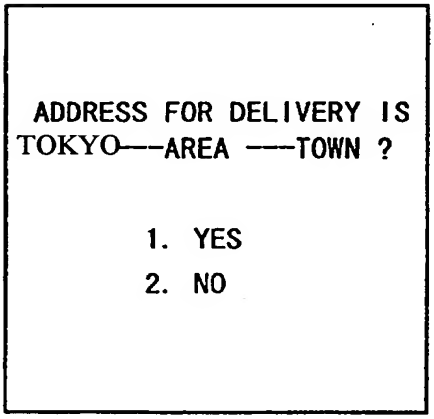
FIG. 13



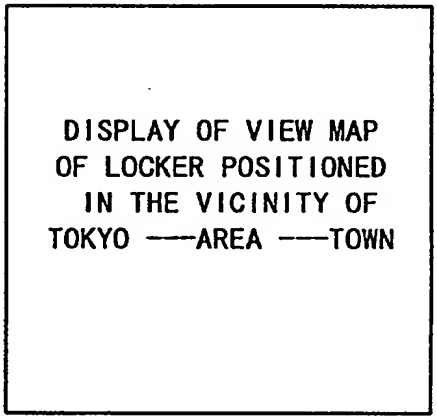
(a)



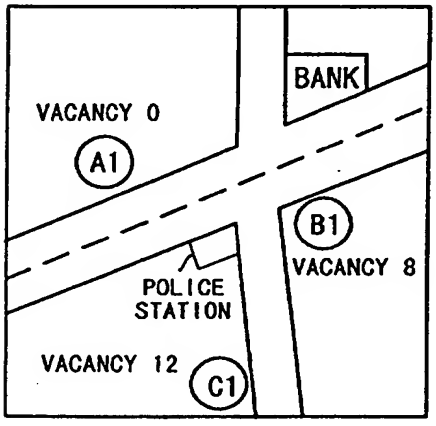
(b)



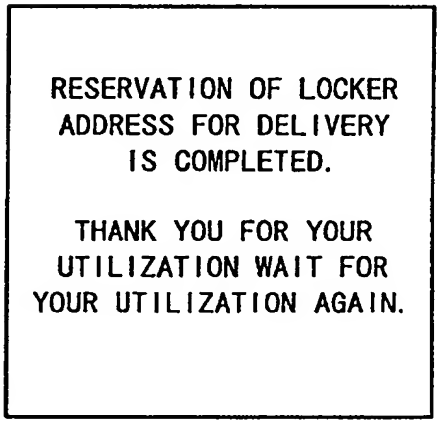
(c)



(d)



(e)



(f)

FIG. 14

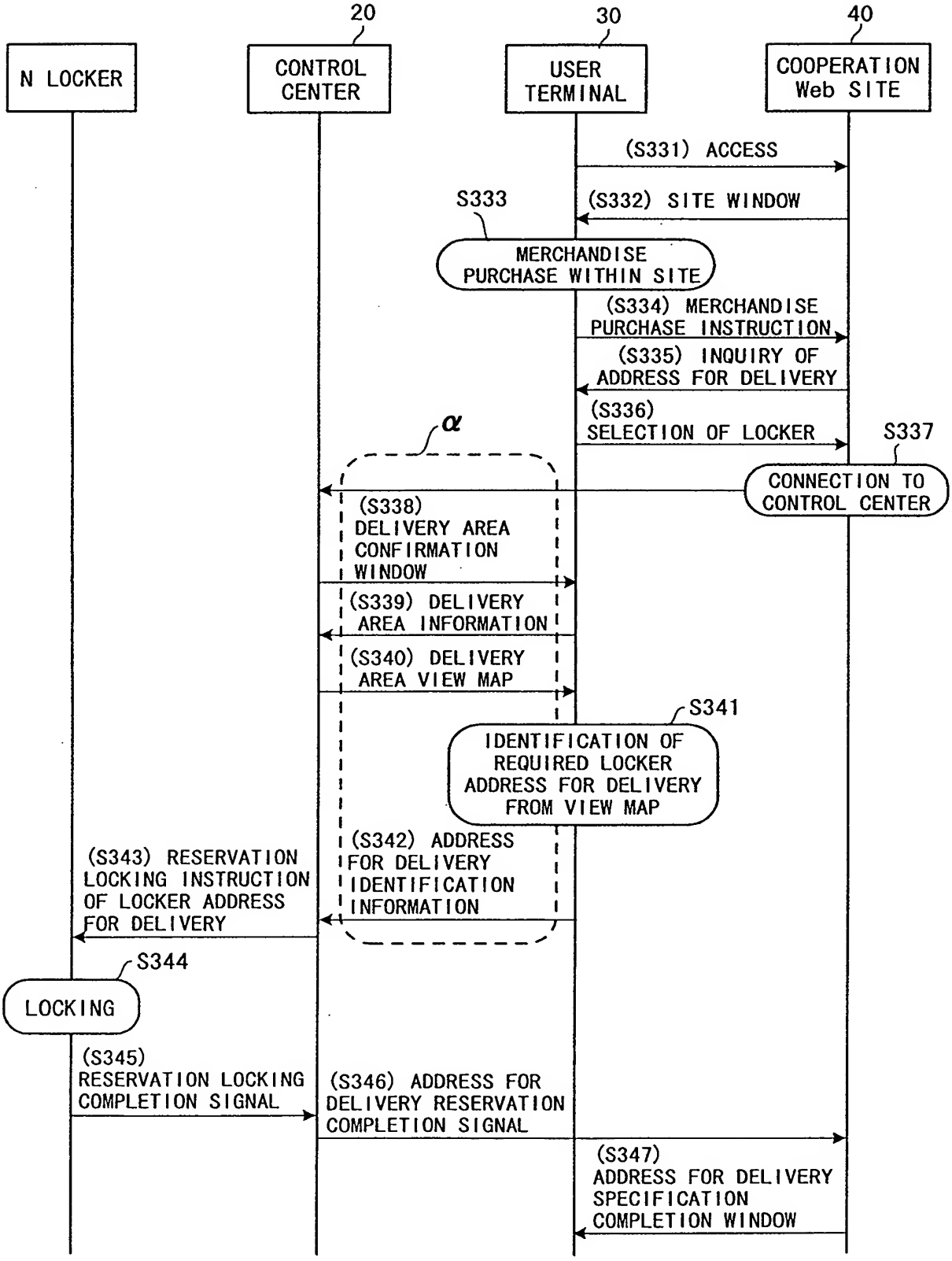

20
30
40
N LOCKER
CONTROL CENTER
USER TERMINAL
COOPERATION Web SITE
(S331) ACCESS
S333
(S332) SITE WINDOW
MERCHANDISE PURCHASE WITHIN SITE
(S334) MERCHANDISE PURCHASE INSTRUCTION
(S335) INQUIRY OF ADDRESS FOR DELIVERY
(S336) SELECTION OF LOCKER
α
S337
CONNECTION TO CONTROL CENTER
(S338) DELIVERY AREA CONFIRMATION WINDOW
(S339) DELIVERY AREA INFORMATION
(S340) DELIVERY AREA VIEW MAP
S341
IDENTIFICATION OF REQUIRED LOCKER ADDRESS FOR DELIVERY FROM VIEW MAP
(S342) ADDRESS FOR DELIVERY IDENTIFICATION INFORMATION
(S343) RESERVATION LOCKING INSTRUCTION OF LOCKER ADDRESS FOR DELIVERY
S344
LOCKING
(S345) RESERVATION LOCKING COMPLETION SIGNAL
(S346) ADDRESS FOR DELIVERY RESERVATION COMPLETION SIGNAL
(S347) ADDRESS FOR DELIVERY SPECIFICATION COMPLETION WINDOW

FIG. 15

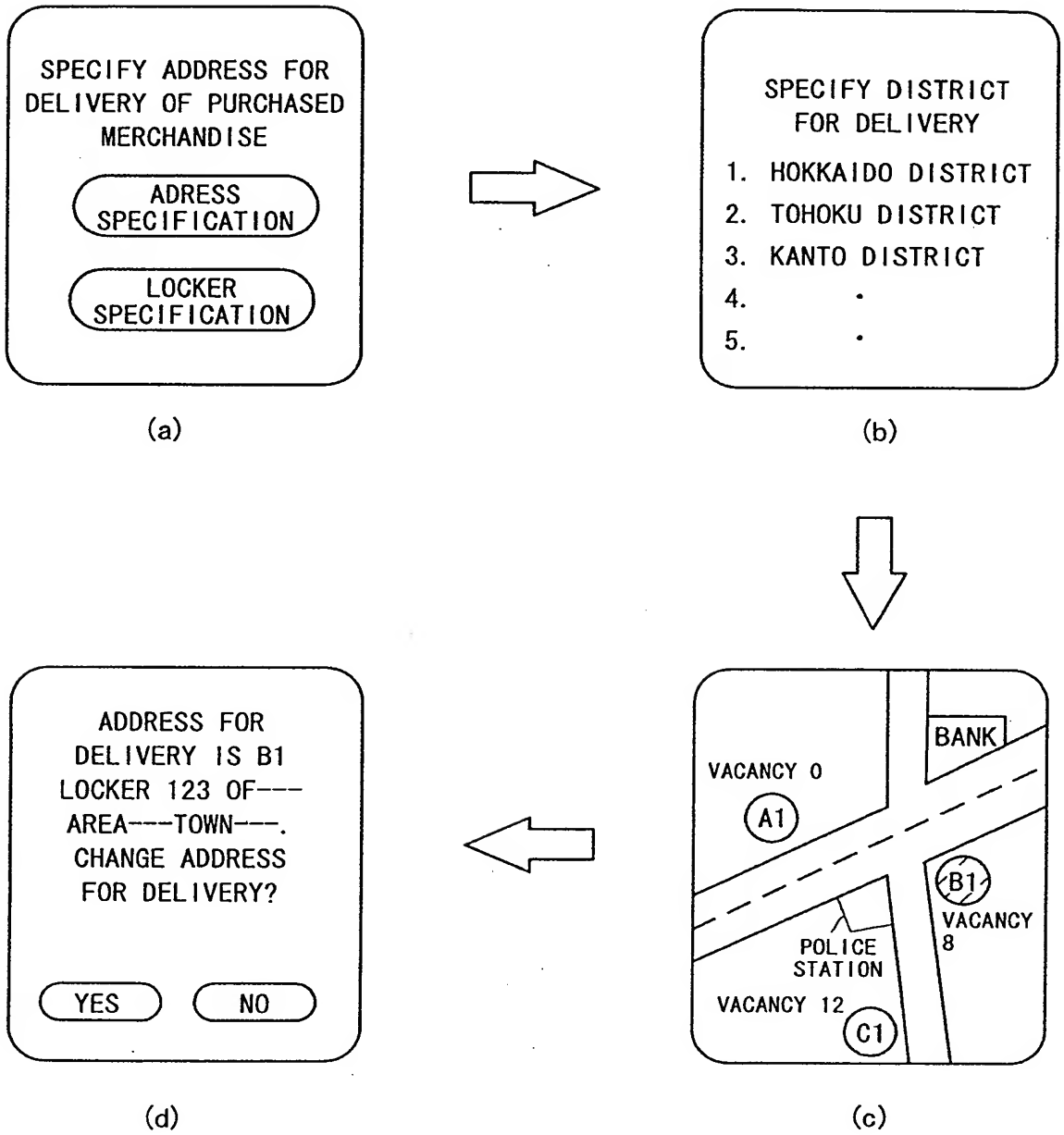

SPECIFY ADDRESS FOR DELIVERY OF PURCHASED MERCHANDISE
ADRESS SPECIFICATION
LOCKER SPECIFICATION
(a)
SPECIFY DISTRICT FOR DELIVERY
1. HOKKAIDO DISTRICT
2. TOHOKU DISTRICT
3. KANTO DISTRICT
4. ・
5. ・
(b)
BANK
VACANCY 0
A1
B1
VACANCY 8
POLICE STATION
VACANCY 12
C1
(c)
ADDRESS FOR DELIVERY IS B1 LOCKER 123 OF--- AREA---TOWN---. CHANGE ADDRESS FOR DELIVERY?
YES
NO
(d)

FIG. 16

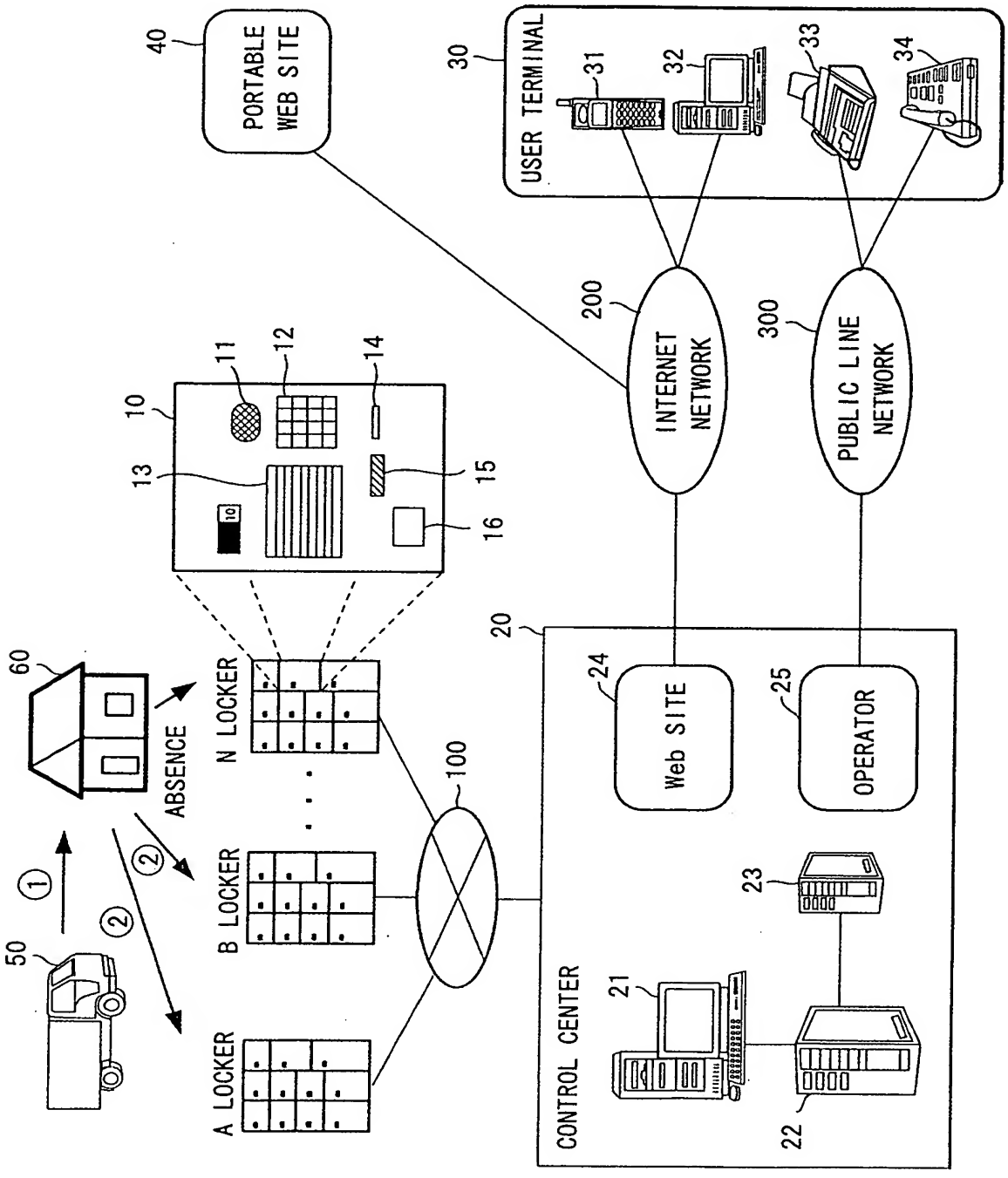
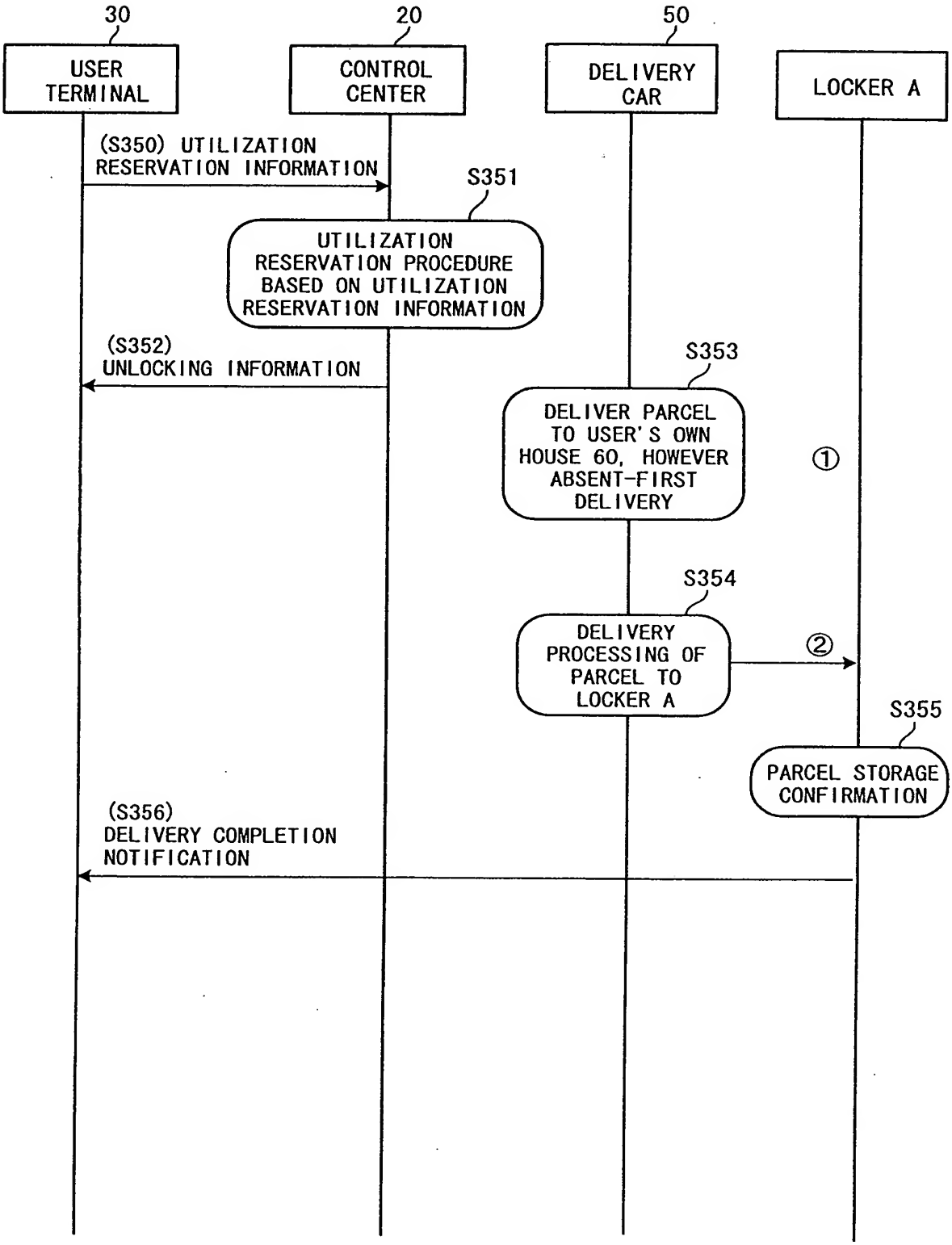

40
PORTABLE WEB SITE
30
USER TERMINAL
31
32
33
34
200
INTERNET NETWORK
300
PUBLIC LINE NETWORK
10
11
12
13
14
15
16
20
24
Web SITE
25
OPERATOR
60
ABSENCE
N LOCKER
B LOCKER
A LOCKER
100
50
①
②
②
23
21
22
CONTROL CENTER

FIG. 17


30
20
50
USER TERMINAL
CONTROL CENTER
DELIVERY CAR
LOCKER A
(S350) UTILIZATION RESERVATION INFORMATION
S351
UTILIZATION RESERVATION PROCEDURE BASED ON UTILIZATION RESERVATION INFORMATION
(S352) UNLOCKING INFORMATION
S353
DELIVER PARCEL TO USER'S OWN HOUSE 60, HOWEVER ABSENT-FIRST DELIVERY
①
S354
DELIVERY PROCESSING OF PARCEL TO LOCKER A
②
S355
PARCEL STORAGE CONFIRMATION
(S356) DELIVERY COMPLETION NOTIFICATION